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WHAT IS CLAIMED IS:

1. A method for producing an immune stimulating composition comprising: treating bacteria containing peptidoglycan with acid;

removing large cellular components from the solution resulting from said

treating; and

saving the remaining solution and adjusting the pH to a physiologically acceptable pH.

2. The method of Claim 1 wherein said removal of large cellular components is by centrifugation.

3. The method of Claim 2 wherein said centrifugation is at 10,000xg for about 20 minutes.

4. The method of Claim 1 further comprising heating at about 100°C during said treating with acid.

5. The method of Claim 4 wherein said heating is for about 2 hours.

6. The method of Claim 1 wherein said acid is selected from the group consisting of acetic acid, hydrochloric acid, and sulfuric acid.

7. The method of Claim 1 wherein said acid is acetic acid.

8. The method of Claim 1 wherein said bacteria containing peptidoglycan is Lactobacillus.

9. The method of Claim 8 wherein said bacteria is L. fermentum.

10. The method of Claim 1 further comprising ultrafiltration of said remaining solution.

11. The method of Claim 1 further comprising removing the lipids from said remaining solution.

12. The method of Claim 11 wherein said lipids are removed with chloroform.

13. The method of Claim 1 further comprising TCA precipitation of said remaining solution.

14. The method of Claim 1 further comprising lyophilization of said remaining solution.

و المرابع

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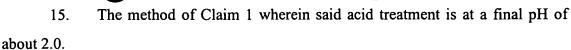
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16. A method for producing a peptidoglycan extract from bacteria comprising:

heating a Gram positive bacteria in water and acid;

removing large cellular particles from the solution resulting from said heating; adjusting the pH of the remaining solution to about 7.0.

17. The method of claim 16 wherein said acid treatment is at a final pH of about 20.

18. The method of Claim 16 wherein said Gram positive bacteria is Lactobacillus.

19. The method of Claim 16 further comprising removing lipids from said remaining solution.

20. The method of Claim 16 further comprising ultrafiltration from said remaining solution.

21. The method of Claim 16 further comprising TCA precipitation from said remaining.

22. A method for the treatment of cancer in a mammal comprising:

administering an effective amount of a bacterial extract obtained by the method of Claim 1, in a pharmaceutically acceptable carrier.

23. The method of Claim 22 wherein said administration is by intravenous or intraperitoneal administration.

24. The method of Claim 22 wherein said effective amount is about 900mg/day.

25. An immuno-stimulatory composition comprising a bacterial extract produced by the method of Claim 1 and an extract from Convolvulus arvensis (Field Bindweed).

26. An immunostimulatory composition comprising an acid-treated bacterial extract wherein said bacterial extract comprises peptidoglycan fragments.

27. The immunostimulatory composition wherein said bacterial extract is from a Gram positive bacteria.

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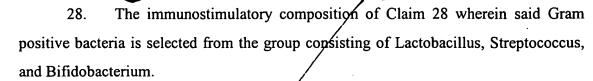
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- 29. The immunostimulatory composition of Claim 28 wherein said bacteria is Lactobacillus.
- 30. The immunostimulatory composition of Claim 29 wherein said bacteria is Lactobacillus fermentum.
- 31. The immunostimulatory composition of Claim 26 wherein said acid is selected from the group consisting of acetic acid, hydrochloric acid, and sulfuric acid.
- 32. The immunostimulatory composition of Claim 31 wherein said acid is acetic acid.
- 33. An immunostimulatory composition comprising an acid-treated bacterial extract produced by the method of Claim 1.

(dd (2)